

claim 1-27
37438
omitted

26. The method of Claim 22 wherein at each occurrence therein, said labeled Lp(a) is replaced by labeled kringle 5 of apo(a).

27. A method for determining the amount of cholesterol associated with Lp(a) in a sample comprising:

- (a) contacting a sample and a monoclonal antibody or fragment thereof that specifically binds to kringle 5 of apo(a) wherein said antibody is coupled to a solid support;
- (b) separating said solid support from said sample; and
- (c) determining said amount of cholesterol bound to said solid support.

28. A monoclonal antibody specific for Lp(a) wherein said antibody binds to substantially all Lp(a) via kringle 5, to plasminogen at less than 1% of Lp(a) binding and to LDL, VLDL, HDL and IDL at less than 2% of Lp(a) binding.

29. The antibody of Claim 28 which is an IgG isotype.

30. The antibody of Claim 29 selected from the group consisting of 1-532-266, 1-390-191, 1-458-165 and 1-892-230.

31. The antibody of Claim 30 which is 1-892-230.

32. The antibody of Claim 31 which is an IgM isotype.

33. The antibody of Claim 32 selected from the group consisting of 1-292-189, 1-431-378, 1-746-183, and 1-546-264.

34. A monoclonal antibody specific for Lp(a) prepared by a method comprising the steps of:

- (a) immunizing a mouse or a rat with kringle 5 of apo(a) or a fragment thereof;
- (b) making a suspension of mouse or rat spleen cells;
- (c) fusing said spleen cells with mouse or rat myeloma cells in the presence of a fusion promoter;
- (d) culturing said fused cells;
- (e) determining the presence of anti-Lp(a) antibody in the culture media;
- (f) cloning a hybridoma producing antibody that binds to substantially all Lp(a), to plasminogen at less than 1% of Lp(a) binding and to other lipoproteins, such as, LDL, VLDL, IDL and HDL at less than 2% of Lp(a) binding; and
- (g) obtaining said antibody from said hybridoma.

35. A hybridoma cell line that secretes a monoclonal antibody that binds to substantially all Lp(a), to plasminogen at less than 1% of Lp(a) binding and to other lipoproteins, such as, LDL, VLDL, IDL and HDL at less than 2% of Lp(a) binding.

36. A hybridoma cell line that secretes a monoclonal antibody selected from the group consisting of 1-532-266, 1-390-191, 1-458-165, 1-892-230, 1-292-189, 1-431-378, 1-746-183, and 1-546-264.

37. A test kit for the detection and quantification of Lp(a) in a plasma sample, comprising a reagent which specifically binds to kringle 5 of apo(a).

38. The test kit of Claim 37 wherein said reagent is labeled.

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Art Unit: 0

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MS

If it's an isotype IgG

Claims 1-27 have been canceled.

28. A monoclonal antibody specific for Lp(a) wherein said antibody binds to substantially all Lp(a) via kringle 5, to plasminogen at less than 1% of Lp(a) binding and to LDL, VLDL, IDL and HDL at less than 2% of Lp(a) binding.

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